

Detailed Data Tables: Adolescents and Young Adults

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases who were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2012, this resulted in the removal of 2,924 HIV/AIDS cases, of which 808 have died and 2,116 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location of diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS surveillance system. The cases are assigned to the state that reports the earliest date of AIDS diagnosis if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that all previous HIV/AIDS fact sheets, data reports and presentations include cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the Massachusetts Department of Public Health (MDPH) HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual exposure mode category for males; those cases have been reassigned to the no identified risk (NIR) exposure mode category. The presumed heterosexual exposure mode category was used with the intention of identifying HIV exposure mode for females when sex with males is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of females living with HIV/AIDS and 40% of recent female HIV diagnoses are reported in the presumed heterosexual exposure mode category. The application of the presumed heterosexual exposure mode category to males is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate exposure modes that are possible for males, including sex with other men (MSM) or IDU. The CDC reports males diagnosed with HIV/AIDS who report sex with females as their only risk factor, without corresponding partner risk or HIV status information, in the NIR exposure mode category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for males in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual exposure mode categories for females.

Table 1. People diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2001–2010²

Year	<13		13–19		20–24		25–29		30–34		35–39		40–44		45–49		50–54		55–59		60+		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2001	11	1%	16	2%	55	6%	107	11%	187	19%	222	23%	171	17%	125	13%	54	5%	14	1%	23	2%	985
2002	4	<1%	22	2%	72	7%	126	12%	188	18%	226	21%	183	17%	106	10%	64	6%	36	3%	29	3%	1,056
2003	9	1%	16	2%	57	6%	93	10%	155	17%	202	22%	162	17%	120	13%	60	6%	27	3%	30	3%	931
2004	10	1%	18	2%	57	6%	97	11%	133	15%	181	20%	158	17%	117	13%	68	8%	37	4%	29	3%	905
2005	5	1%	9	1%	63	7%	91	10%	134	15%	152	18%	179	21%	122	14%	54	6%	37	4%	22	3%	868
2006	4	1%	19	2%	62	8%	88	11%	93	12%	139	18%	138	18%	113	14%	58	7%	43	5%	27	3%	784
2007	4	1%	13	2%	57	8%	76	11%	81	12%	122	17%	123	18%	102	15%	57	8%	35	5%	30	4%	700
2008	6	1%	16	2%	55	8%	99	14%	85	12%	75	11%	118	17%	99	14%	73	11%	37	5%	30	4%	693
2009	3	<1%	18	3%	55	8%	61	9%	93	14%	89	14%	96	15%	107	16%	59	9%	38	6%	34	5%	653
2010	6	1%	11	2%	60	9%	65	10%	79	12%	98	15%	89	14%	103	16%	69	11%	34	5%	34	5%	648

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/12

Table 2. Males diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2001–2010²

Year	<13		13–19		20–24		25–29		30–34		35–39		40–44		45–49		50–54		55–59		60+		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2001	4	1%	11	2%	25	4%	71	10%	123	18%	171	25%	122	18%	88	13%	42	6%	13	2%	16	2%	686
2002	2	<1%	11	2%	41	6%	74	10%	116	16%	163	23%	132	18%	77	11%	49	7%	25	4%	24	3%	714
2003	6	1%	8	1%	34	5%	50	8%	107	17%	149	24%	114	18%	76	12%	47	7%	20	3%	18	3%	629
2004	4	1%	8	1%	37	6%	63	10%	85	13%	144	23%	112	18%	85	13%	43	7%	30	5%	23	4%	634
2005	0	0%	6	1%	41	6%	67	11%	98	15%	116	18%	136	21%	94	15%	38	6%	26	4%	15	2%	637
2006	2	<1%	9	2%	42	7%	57	10%	65	11%	109	19%	104	18%	84	15%	46	8%	29	5%	20	4%	567
2007	1	<1%	6	1%	42	8%	55	11%	51	10%	89	18%	90	18%	74	15%	45	9%	24	5%	20	4%	497
2008	6	1%	13	3%	46	9%	70	14%	56	11%	51	10%	89	18%	75	15%	53	10%	26	5%	22	4%	507
2009	1	<1%	13	3%	47	10%	47	10%	65	13%	67	14%	70	14%	89	18%	41	8%	25	5%	24	5%	489
2010	3	1%	5	1%	41	9%	53	12%	53	12%	64	14%	68	15%	80	18%	51	11%	18	4%	21	5%	457

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² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/12

Table 3. Females diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2001–2010²

	<13		13–19		20–24		25–29		30–34		35–39		40–44		45–49		50–54		55–59		60+		Total
Year	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2001	7	2%	5	2%	30	10%	36	12%	64	21%	51	17%	49	16%	37	12%	12	4%	1	0%	7	2%	299
2002	2	1%	11	3%	31	9%	52	15%	72	21%	63	18%	51	15%	29	8%	15	4%	11	3%	5	1%	342
2003	3	1%	8	3%	23	8%	43	14%	48	16%	53	18%	48	16%	44	15%	13	4%	7	2%	12	4%	302
2004	6	2%	10	4%	20	7%	34	13%	48	18%	37	14%	46	17%	32	12%	25	9%	7	3%	6	2%	271
2005	5	2%	3	1%	22	10%	24	10%	36	16%	36	16%	43	19%	28	12%	16	7%	11	5%	7	3%	231
2006	2	1%	10	5%	20	9%	31	14%	28	13%	30	14%	34	16%	29	13%	12	6%	14	6%	7	3%	217
2007	3	1%	7	3%	15	7%	21	10%	30	15%	33	16%	33	16%	28	14%	12	6%	11	5%	10	5%	203
2008	0	0%	3	2%	9	5%	29	16%	29	16%	24	13%	29	16%	24	13%	20	11%	11	6%	8	4%	186
2009	2	1%	5	3%	8	5%	14	9%	28	17%	22	13%	26	16%	18	11%	18	11%	13	8%	10	6%	164
2010	3	2%	6	3%	19	10%	12	6%	26	14%	34	18%	21	11%	23	12%	18	9%	16	8%	13	7%	191

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/12

Table 4. People living with HIV/AIDS on December 31, 2011 by age at HIV infection diagnosis: Massachusetts¹

Age (years)	N	%
Under 13	338	2%
13 to 19	349	2%
20 to 24	1,425	8%
25 to 29	2,743	15%
30 to 34	3,665	20%
35 to 39	3,576	20%
40 to 44	2,733	15%
45 to 49	1,704	9%
50 to 54	874	5%
55 to 59	424	2%
60+	339	2%
Total	18,170	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/12

Table 5. People living with HIV/AIDS on December 31, 2011 by current age and gender: Massachusetts¹

Age (years)	Male		Female		State Total	
	N	%	N	%	N	%
Under 13	24	<1%	24	<1%	48	<1%
13 to 19	88	1%	71	1%	159	1%
20 to 24	189	1%	115	2%	304	2%
25 to 29	388	3%	166	3%	554	3%
30 to 34	617	5%	385	7%	1,002	6%
35 to 39	921	7%	583	11%	1,504	8%
40 to 44	1,833	14%	885	17%	2,718	15%
45 to 49	2,834	22%	1,076	20%	3,910	22%
50 to 54	2,671	21%	879	17%	3,550	20%
55 to 59	1,769	14%	584	11%	2,353	13%
60+	1,583	12%	485	9%	2,068	11%
Total	12,917	100%	5,253	100%	18,170	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/12

Table 6. People diagnosed with HIV infection by age at diagnosis and Health Service Region (HSR):¹ Massachusetts², 2008–2010³

HSR	Age at HIV Diagnosis (years)								Total ⁴
	13–19		20–24		13–24		25+		N
	N	%	N	%	N	%	N	%	N
Boston	13	2%	51	9%	64	11%	501	88%	570
Central	4	2%	20	12%	24	14%	145	84%	172
Metro West	5	2%	30	9%	35	11%	291	88%	330
Northeast	6	2%	28	8%	34	10%	316	90%	351
Southeast	8	3%	21	7%	29	10%	259	90%	288
Western	9	4%	14	7%	23	11%	185	88%	210
Prison ⁵	0	0%	6	8%	6	8%	67	92%	73
Mass. Total	45	2%	170	9%	215	11%	1,764	88%	1,994

¹ Reflects the Health Service Region of a person's residence at the time of report (not necessarily current residence); see Epidemiologic Profile General Appendices, Health Service Region Maps, available at

http://www.mass.gov/dph/aids/research/profile2005/app5_hrs_maps.pdf for configuration of Health Service Regions

² Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

⁴ Totals include people diagnosed with HIV infection at less than 13 years of age

⁵ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/12

Table 7. Ten cities/towns¹ in Massachusetts² with the highest proportion of HIV infection diagnoses (HIV Dx) among adolescents and young adults (13–24 years old): 2008–2010³

Rank	City/Town	Number of HIV Dx among 13–24 year olds	Total Number of HIV Dx	Percent of Total HIV Dx
1	Lynn	6	42	14.3%
2	Holyoke	-- ⁴	31	-- ⁴
3	Worcester	12	97	12.4%
4	Somerville	-- ⁴	33	-- ⁴
5	New Bedford	-- ⁴	34	-- ⁴
6	Boston	60	536	11.2%
7	Fall River	-- ⁴	36	-- ⁴
8	Waltham	-- ⁴	37	-- ⁴
9	Brockton	6	63	9.5%
9	Quincy	-- ⁴	21	-- ⁴

¹ Among cities/towns with over 20 reported HIV Infection diagnoses in the years 2008–2010; reflects the city/town of a person's residence at the time of report (not necessarily current residence). People diagnosed while at a correctional facility are not included.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

⁴ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/12

Table 8. People diagnosed with HIV infection, age at diagnosis by gender and race/ethnicity: Massachusetts¹, 2008–2010²

	Age at HIV Diagnosis (years)							
	13–19		20–24		13–24		25+	
Gender:	N	%	N	%	N	%	N	%
Male	31	69%	134	79%	165	77%	1,278	72%
Female	14	31%	36	21%	50	23%	486	28%
Race:	N	%	N	%	N	%	N	%
White NH ³	10	22%	62	36%	72	33%	696	39%
Black NH	20	44%	53	31%	73	34%	576	33%
Hispanic/Latino	14	31%	49	29%	63	29%	433	25%
API ⁴	-- ⁶	-- ⁶	-- ⁶	-- ⁶	7	3%	53	3%
Other/Unk. ⁵	-- ⁶	-- ⁶	-- ⁶	-- ⁶	0	0%	6	<1%
Total	45	100%	170	100%	215	100%	1,764	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ NH = Non-Hispanic

⁴ API = Asian/Pacific Islander

⁵ Other/Unk. = Other/Unknown; includes American Indian/Alaska Native and unknown race/ethnicity

⁶ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/12

Table 9. People living with HIV/AIDS, age on December 31, 2011 by gender and race/ethnicity: Massachusetts¹

	Age (years) on December 31, 2011							
	13–19		20–24		13–24		25+	
Gender:	N	%	N	%	N	%	N	%
Male	88	55%	189	62%	277	60%	12,616	71%
Female	71	45%	115	38%	186	40%	5,043	29%
Race:	N	%	N	%	N	%	N	%
White NH ²	38	24%	76	25%	114	25%	7,848	44%
Black NH	72	45%	124	41%	196	42%	5,159	29%
Hispanic/Latino	45	28%	96	32%	141	30%	4,303	24%
API ³	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	275	2%
Other/Unk. ⁴	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	74	<1%
Total	159	100%	304	100%	463	100%	17,659	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

² NH = Non-Hispanic

³ API = Asian/Pacific Islander

⁴ Other/Unk. = Other/Unknown; includes American Indian/Alaska Native and unknown race/ethnicity

⁵ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/12

Table 10. People diagnosed with HIV by age at diagnosis and exposure mode: Massachusetts¹, 2008–2010²

	Age at Diagnosis (years)							
	13–19		20–24		13–24		25+	
By Exposure Mode:	N	%	N	%	N	%	N	%
Male-to-Male Sex (MSM)	21	47%	102	60%	123	57%	666	38%
Injection Drug Use (IDU)	-- ⁶	-- ⁶	9	5%	10	5%	177	10%
MSM/IDU	-- ⁶	-- ⁶	5	3%	7	3%	49	3%
Total Heterosexual Sex (HTSX)	-- ⁶	-- ⁶	12	7%	14	7%	237	13%
• HTSX w/ an Injection Drug User	0	0%	-- ⁶	-- ⁶	-- ⁶	-- ⁶	44	2%
• HTSX w/ Bisexual male (females only)	0	0%	-- ⁶	-- ⁶	-- ⁶	-- ⁶	4	<1%
• Other HTSX ³	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	7	<1%
• HTSX w/ a person w/ HIV or AIDS	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	182	10%
Blood/Blood Products	0	0%	0	0%	0	0%	0	0%
Pediatric	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	0	0%
Total Undetermined/Other	16	36%	41	24%	57	27%	635	36%
• Presumed HTSX ⁴	5	11%	16	9%	21	10%	198	11%
• Undetermined/Other ⁵	11	24%	25	15%	36	17%	437	25%
Total	45	100%	170	100%	215	100%	1,764	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three year period after the implementation of HIV infection reporting in 1999.

³ Includes heterosexual sex with a person who received blood/blood products.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females only.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/12

Note: The category of “presumed heterosexual” is used in Massachusetts to re-assign females who are reported with an exposure of heterosexual sex, but only with a partner of unknown HIV status or behavioral risk. Massachusetts uses the category of presumed heterosexual to distinguish these female cases from other undetermined cases about which we know less. Prior to January 1, 2011, the presumed heterosexual category was also used to report HIV data in males. The rationale for the application of the presumed heterosexual exposure mode category to females only has been addressed in the MDPH OHA report “Intersecting Risks: HIV Infection among Heterosexual Women and Men in Massachusetts.” (2010) http://www.mass.gov/Eeohhs2/docs/dph/aids/intersecting_risks.pdf. Nationally, the Centers for Disease Control and Prevention categorize “presumed heterosexual” cases as “no identified risk” (NIR). As such, comparisons of the presumed heterosexual category cannot be made to national data. Caution should be used in interpreting data for presumed heterosexual, as it is still not clear what the exposure risk was for females in this category. Although a person may not report other risk behaviors, such as injection drug use to a health care provider, it does not exclude the possibility that an individual has experienced these other risks. There are many barriers to disclosing HIV risk behaviors in the health care setting such as a limited patient-provider relationship or stigma.

Table 11. People living with HIV/AIDS on December 31, 2011, current age by exposure mode: Massachusetts¹

	Age on December 31, 2011 (years)							
	13–19		20–24		13–24		25+	
By Exposure Mode:	N	%	N	%	N	%	N	%
Male-to-Male Sex (MSM)	11	7%	86	28%	97	21%	6,401	36%
Injection Drug Use (IDU)	0	0%	5	2%	5	1%	3,858	22%
MSM/IDU	-- ⁵	-- ⁵	8	3%	9	2%	596	3%
Total Heterosexual Sex (HTSX)	-- ⁵	-- ⁵	18	6%	19	4%	2,594	15%
• HTSX w/ an Injection Drug User	-- ⁵	-- ⁵	0	0%	0	0%	891	5%
• HTSX w/ Bisexual male (females only)	-- ⁵	-- ⁵	0	0%	0	0%	43	0%
• Other HTSX ²	-- ⁵	-- ⁵	0	0%	0	0%	43	0%
• HTSX w/ a person w/ HIV or AIDS	-- ⁵	-- ⁵	18	6%	19	4%	1,617	9%
Blood/Blood Products	0	0%	0	0%	0	0%	75	<1%
Pediatric	130	82%	121	40%	251	54%	41	<1%
Occupational	0	0%	0	0%	0	0%	1	<1%
Total Undetermined	16	11%	66	21%	82	18%	4,093	23%
• Presumed HTSX ³	-- ⁵	-- ⁵	22	7%	26	6%	1,494	8%
• Undetermined ⁴	-- ⁵	-- ⁵	44	14%	56	12%	2,599	15%
Total	159	100%	304	100%	463	100%	17,659	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

² Includes heterosexual sex with a person who received blood/blood products.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females only.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

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Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/12

Table 12. People living with HIV/AIDS who were exposed to HIV infection perinatally, or through other means before age 13 (years), by age on December 31, 2011¹

Age:	N	%
Less than 13	48	14%
13–19	130	38%
20–24	121	36%
25 and over	41	12%
Total	340	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.
Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/12

Table 13. Adolescents and young adults 13–24 years old on December 31, 2011, who were exposed to HIV infection perinatally, or through other means before age 13, by gender and race/ethnicity¹

Gender:	N	%
Male	131	52%
Female	120	48%
Race/Ethnicity:	N	%
White (non-Hispanic)	50	20%
Black (non-Hispanic)	110	44%
Hispanic/Latino	87	35%
Asian/Pacific Islander	-- ²	-- ²
Other/Undetermined	-- ²	-- ²
Total	251	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

² Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/12

Table 14. People diagnosed with HIV infection between 13–24 years of age, gender by race/ethnicity and exposure mode: Massachusetts¹, 2008–2010²

	Male		Female	
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	59	36%	13	26%
Black (non-Hispanic)	52	32%	21	42%
Hispanic/Latino	47	28%	16	32%
Other/Unknown	7	4%	0	0%
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	123	75%	N/A ³	N/A
Injection Drug Use (IDU)	-- ⁷	-- ⁷	-- ⁷	-- ⁷
MSM/IDU	7	4%	N/A ³	N/A
Heterosexual sex (HTSX)	-- ⁷	-- ⁷	11	22%
Other ⁴	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Total Undetermined	28	17%	29	58%
• Presumed HTSX ⁵	N/A	N/A	21	42%
• Undetermined ⁶	28	17%	8	16%
Total	165	100%	50	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

² Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ N/A = Not Applicable

⁴ Other includes pediatric and receipt of blood/blood products.

⁵ Includes female sex with male of unknown HIV status or risk. This category is limited to females only.

⁶ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁷ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/12

Table 15. People diagnosed with HIV infection at 25 years of age and older, gender by race/ethnicity and exposure mode: Massachusetts¹, 2008–2010²

	Male		Female	
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	612	48%	84	17%
Black (non-Hispanic)	316	25%	260	53%
Hispanic/Latino	302	24%	131	27%
Other/Unknown	48	4%	11	2%
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	666	52%	N/A ³	N/A
Injection Drug Use (IDU)	120	9%	57	12%
MSM/IDU	49	4%	N/A ³	N/A
Heterosexual sex (HTSX)	74	6%	163	34%
Other ⁴	0	0%	0	0%
Total Undetermined	369	29%	266	55%
• Presumed HTSX ⁵	N/A	N/A	198	41%
• Undetermined ⁶	369	29%	68	14%
Total	1,278	100%	486	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

² Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ N/A = Not Applicable

⁴ Other includes pediatric and receipt of blood/blood products.

⁵ Includes female sex with male of unknown HIV status or risk. This category is limited to females only.

⁶ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/12

Table 16. People living with HIV/AIDS on December 31, 2011 between 13–24 years of age, gender by race/ethnicity and exposure mode: Massachusetts¹

	Male		Female	
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	70	25%	44	24%
Black (non-Hispanic)	110	40%	86	46%
Hispanic/Latino	90	32%	51	27%
Other/Unknown	7	3%	5	3%
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	97	35%	N/A ²	N/A
Injection Drug Use (IDU)	-- ⁶	-- ⁶	-- ⁶	-- ⁶
MSM/IDU	9	3%	N/A	N/A
Heterosexual sex (HTSX)	-- ⁶	-- ⁶	-- ⁶	-- ⁶
Other ³	131	47%	120	65%
Total Undetermined	38	14%	44	24%
• Presumed HTSX ⁴	N/A	N/A	26	14%
• Undetermined ⁵	38	14%	18	10%
Total	277	100%	186	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

² N/A = Not Applicable

³ Other includes pediatric and receipt of blood/blood products.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females only.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/12

Table 17. People living with HIV/AIDS on December 31, 2011 25 years of age and older, gender by race/ethnicity and exposure mode: Massachusetts¹

	Male		Female	
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	6,523	52%	1,325	26%
Black (non-Hispanic)	2,936	23%	2,223	44%
Hispanic/Latino	2,893	23%	1,410	28%
Other/Unknown	264	2%	85	2%
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	6,401	51%	N/A ²	N/A
Injection Drug Use (IDU)	2,561	20%	1,297	26%
MSM/IDU	596	5%	N/A	N/A
Heterosexual sex (HTSX)	768	6%	1,826	36%
Other ³	76	1%	45	1%
Total Undetermined	2,214	18%	1,875	37%
• Presumed HTSX ⁴	N/A	N/A	1,494	30%
• Undetermined ⁵	2,214	18%	381	8%
Total	12,616	100%	5,043	100%
¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts. ² N/A = Not Applicable ³ Other includes pediatric and receipt of blood/blood products. ⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females only. ⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up. Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/12				

Table 18. People diagnosed with HIV infection between 13–24 years of age, race/ethnicity by exposure mode: Massachusetts¹, 2008–2010²

	White NH ³		Black NH		Hispanic/Latino	
Exposure Mode:	N	%	N	%	N	%
Male-to-Male Sex (MSM)	51	71%	36	49%	32	51%
Injection Drug Use (IDU)	5	7%	0	0%	5	8%
MSM/IDU	-- ⁷	-- ⁷	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Heterosexual Sex (HTSX)	-- ⁷	-- ⁷	-- ⁷	-- ⁷	5	8%
Other ⁴	0	0%	0	0%	-- ⁷	-- ⁷
Total Undetermined	-- ⁷	-- ⁷	31	42%	15	24%
• Presumed Heterosexual ⁵	-- ⁷	-- ⁷	11	15%	8	13%
• Undetermined ⁶	7	10%	20	27%	7	11%
Total	72	100%	73	100%	63	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

² Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ NH = Non-Hispanic

⁴ Other includes pediatric and receipt of blood/blood products.

⁵ Includes female sex with male of unknown HIV status or risk. This category is limited to females only.

⁶ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁷ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/12

Table 19. People living with HIV/AIDS on December 31, 2011 between 13–24 years of age, race/ethnicity by exposure mode: Massachusetts¹

	White NH ²		Black NH		Hispanic/Latino	
By Exposure Mode:	N	%	N	%	N	%
Male-to-Male Sex (MSM)	36	32%	31	16%	26	18%
Injection Drug Use (IDU)	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶
MSM/IDU	5	4%	-- ⁶	-- ⁶	-- ⁶	-- ⁶
Heterosexual Sex (HTSX)	5	4%	8	4%	6	4%
Other ³	50	44%	110	56%	87	62%
Total Undetermined	-- ⁶	-- ⁶	45	23%	19	13%
• Presumed Heterosexual ⁴	-- ⁶	-- ⁶	15	8%	7	5%
• Undetermined ⁵	10	9%	30	15%	12	9%
Total	114	100%	196	100%	141	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being diagnosed and reported in Massachusetts.

² NH = Non-Hispanic

³ Other includes pediatric and receipt of blood/blood products.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females only.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/12

Technical Notes:

Tables 20–22 include data reported by students in randomly selected Massachusetts public high schools every odd year from 1993 to 2011. This anonymous survey, the Youth Risk Behavior Survey (YRBS), is administered by the Massachusetts Department of Elementary and Secondary Education in collaboration with the Centers for Disease Control and Prevention and focuses on risk behaviors that may affect the health and/or safety of high school students.

Table 20. Sexual behavior as reported to the Youth Risk Behavior Survey: Massachusetts

Calendar Year 2011

By Behavior:	Percent of total responding yes to specified question	N ¹ (total number of respondents for each question)
Ever had sexual intercourse	42.0%	2,513
Sexual intercourse before age 13	4.2%	2,512
4 or more lifetime sexual intercourse partners	11.4%	2,510
Sexual intercourse in last 3 months	30.4%	2,513
Condom used at last intercourse ²	57.7%	761
Alcohol/drugs used at last intercourse ²	22.7%	770
Ever been, gotten someone pregnant	5.3%	2,693
Ever had sexual contact against their will	9.5%	2,693

¹ The number of respondents for each question varies because not all questions are asked of everyone taking the survey and, even when the question is asked, some survey participants do not answer all questions

² Among youth reporting sexual intercourse in the past three months

Data Source: Massachusetts Department of Elementary and Secondary Education

**Table 21. Massachusetts Youth Risk Behavior Survey
respondents reporting condom use at last sexual intercourse
by year and gender: Massachusetts, 1993–2011¹**

Year	Males		Females		Total	
	%	Total N ²	%	Total N ²	%	Total N ²
1993	57.4%	409	46.7%	462	51.8%	872
1995	59.9%	623	52.0%	626	55.9%	1,253
1997	64.2%	517	50.4%	559	57.0%	1,079
1999	62.6%	589	52.0%	639	57.2%	1,237
2001	61.6%	553	54.9%	582	58.1%	1,139
2003	60.3%	424	57.4%	496	57.4%	922
2005	71.6%	442	59.2%	542	65.0%	986
2007	63.2%	422	59.2%	505	61.1%	929
2009	65.7%	409	50.6%	437	57.5%	849
2011	64.5%	373	51.0%	387	57.7%	761

¹ A random sample of high schools is selected for participation each year; data presented do not represent cohorts followed over time

² Total N = total number of respondents by sex (unweighted). The number of respondents for each question varies from year to year

Data Source: Massachusetts Department of Elementary and Secondary Education

**Table 22. Massachusetts Youth Risk Behavior Survey
respondents reporting sexual intercourse (ever) by year and
gender: Massachusetts, 1993–2011¹**

Year	Males		Females		Total	
	%	Total N ²	%	Total N ²	%	Total N ²
1993	51.4%	1,326	46.0%	1,435	48.7%	2,763
1995	50.3%	1,870	42.8%	1,930	46.5%	3,806
1997	46.8%	1,800	42.4%	1,858	44.7%	3,664
1999	46.4%	1,922	41.8%	2,017	44.1%	3,954
2001	46.3%	1,886	42.3%	1,892	44.3%	3,786
2003	40.8%	1,581	41.1%	1,676	41.0%	3,261
2005	47.9%	1,512	42.9%	1,669	45.4%	3,185
2007	45.2%	1,344	43.7%	1,495	44.4%	2,844
2009	48.0%	1,225	44.6%	1,251	46.4%	2,480
2011	44.7%	1,228	39.4%	1,281	42.0%	2,513

¹ A random sample of high schools is selected for participation each year; data presented do not represent cohorts followed over time

² Total N = total number of respondents by sex (unweighted). The number of respondents for each question varies from year to year

Data Source: Massachusetts Department of Elementary and Secondary Education